PATENT ABSTRACTS OF JAPAN

(11)Publication number : **2001-164354**
(43)Date of publication of application : **19.06.2001**

(51)Int.CI. C23C 4/10
C23C 14/00
C23C 16/06
// H01L 21/3065
H01L 21/31

(21)Application number : **11-351546**
(22)Date of filing : **10.12.1999**

(71)Applicant : **TOCALO CO LTD**
TOKYO ELECTRON LTD
(72)Inventor : **HARADA YOSHIO**
TAKEUCHI JUNICHI
HAMAGUCHI TATSUYA
NAGAYAMA MASAYUKI
MIHASHI YASUSHI

(54) MEMBER INSIDE PLASMA TREATMENT CHAMBER, AND MANUFACTURING METHOD THEREFOR

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a member inside a plasma treatment chamber, excellent in plasma erosion resistance, and to provide an advantageous manufacturing method therefor.
SOLUTION: The surface of a base material is coated with a multilayered combined layer consisting of a metal film formed as an undercoat, an Al2O3 film formed as an intermediate layer on the undercoat, and a Y2O3 sprayed deposit formed as a topcoat on the intermediate layer.

CLAIMS

[Claim(s)]
[Claim 1] Interior material of a plasma treatment container characterized by covering the front face of a base material with 2OY3 sprayed coating.
[Claim 2] Interior material of a plasma treatment container according to claim 1 characterized by having a metallic film as an under coat under the Y2O3 sprayed coating formed as topcoat.
[Claim 3] Interior material of a plasma treatment container according to claim 2 characterized by having an interlayer between the metallic film formed as an under coat, and 2OY3 sprayed coating formed as topcoat.
[Claim 4] The gap or one or more sorts of metals which be chosen from nickel and its